

Claims

- [c1] An aboveground storage tank for flammable and combustible liquids having secondary containment capability, comprising:
an inner primary tank for storing the liquid;
an outer secondary tank encasing the inner primary tank defining a substantially uniform interstitial space therebetween;
an insulating foam material disposed of in the substantially uniform interstitial space; and
a fire resistant textile material sandwiched between the foam material and the outer secondary tank so that a fire resistant composite comprised of insulating foam and fire resistant textile material encases the inner primary tank.
- [c2] The storage tank of claim 1 in which the inner primary tank is A-36 hot rolled carbon steel.
- [c3] The storage tank of claim 1 in which the outer secondary tank is A-36 hot rolled carbon steel.
- [c4] The storage tank of claim 1 wherein the fire resistant textile material is Mylar.
- [c5] The storage tank of claim 1 wherein the fire resistant textile material is Kevlar.
- [c6] The storage tank of claim 1 wherein the insulating foam material is polystyrene.
- [c7] The storage tank of claim 1 wherein the insulating foam material is a urethane polymer.
- [c8] The storage tank of claim 1 wherein the insulating material is polymethyl.
- [c9] The storage tank of claim 1 wherein the insulating material is a synthetic polymer.

- [c10] The storage tank of claim 1 wherein the insulating material is rubber.
- [c11] The storage tank of claim 1 further comprising an interstitial leak sensor for monitoring leakage of the inner primary tank.
- [c12] The storage tank of claim 1 further comprising a first venting means for venting the inner primary tank.
- [c13] The storage tank of claim 1 further comprising a second venting means for venting the interstitial space containing the fire resistant composite.
- [c14] The storage tank of claim 1 in which the tank is used as a fuel storage tank to provide fuel for a generator.
- [c15] The storage tank of claim 1 further comprising a support means to form a base for a generator apparatus so that the generator apparatus is supported by the top surface of the fuel storage tank thereby reducing the space required for the generator apparatus.
- [c16] An aboveground storage tank for flammable and combustible liquids having secondary containment capability, comprising:
an inner primary tank for storing the liquid wherein the inner primary tank is A-36 hot rolled carbon steel;
an outer secondary tank encasing the inner primary tank defining a substantially uniform interstitial space therebetween wherein the secondary tank is A-36 hot rolled carbon steel;
an insulating foam material disposed of in the substantially uniform interstitial space wherein the foam material is a synthetic polymer;
a fire resistant textile material sandwiched between the foam material and the outer secondary tank so that a fire resistant composite comprised of insulating foam and fire resistant textile material encases the inner primary tank wherein the fire resistant textile material is Kevlar;
an interstitial leak sensor for monitoring leakage of the inner primary tank;
a first venting means for venting the inner primary tank;
a second venting means for venting the interstitial space containing the fire

resistant composite; and
a support means to form a base for a generator apparatus so that the generator apparatus is supported by the top surface of the fuel storage tank thereby reducing the space required for the generator apparatus.